

2024-2025

Degree Programs in Systems and Information Engineering, Graduate School of Science and Technology,

University of Tsukuba



University of Tsukuba





Table of Contents

For more information, please visit our website https://www.sie.tsukuba.ac.jp/eng/

Educational Aims and Structure of Our Degree Programs	- 3
Six Features of Our Degree Programs	- 5
Degree Programs Correlation Diagram and Introduction to Each Degree Program	- 10
Degree Programs Correlation Diagram	- 11
Master's and Doctoral Programs in Policy and Planning Sciences	- 13
Master's Program in Service Engineering ————————————————————————————————————	- 15
Master's and Doctoral Programs in Risk and Resilience Engineering	- 17
Master's and Doctoral Programs in Computer Science	- 19
Master's and Doctoral Programs in Intelligent and Mechanical Interaction Systems	- 21
Master's and Doctoral Programs in Engineering Mechanics and Energy ————————————————————————————————————	- 25
Doctoral Program in Empowerment Informatics	- 27
Master's and Doctoral Programs in Life Science Innovation	- 29
Campus Life ————————————————————————————————————	- 31
Students' Voices	- 33
Career Paths/Admissions	- 34

Cover design

The pentagrams represent five degrees awarded by the Degree Programs in Systems and Information Engineering, and they are set within an eight-color octagon symbolizing our eight degree programs. This cover design shows how these degrees and programs harmonize to make up the Degree Programs in Systems and Information Engineering.

Message from the Dean

ENDO Yasunori

The Degree Programs in Systems and Information Engineering are known for their distinctive style of education and research in a cuttingedge, multidisciplinary field that integrates systems, information, and society. We take pride in our wealth of achievements, and believe that our research and development outcomes in the field deserve attention, since they serve as the bedrock of social infrastructure and support our daily lives and economic activities.



The 5th Science and Technology Basic Plan, which has been implemented over five years since 2016, recognizes the arrival of an era of revolutionary change, when technological evolution in areas including information and communications technology (ICT) drastically changes the social and economic structure. The plan also advocates the realization of a super-smart society (Society 5.0), where fusion of cyberspace and physical space may bring greater prosperity. Moreover, it aims to promote industry-academia collaboration in order to facilitate the cultivation and recruitment of engineers who will be responsible for future innovation in science and technology. This is precisely the vision we share. Our mission is to contribute to the promotion of art and science, as well as develop human resources with global perspectives, flexible thinking, originality, and creativity. Such personnel are indispensable to solving real-world problems, which are often complicated and challenging, and development of such talent eventually produces potential leaders capable of displaying international initiative.

Today's social problems, regional challenges, and economic activities are highly sophisticated. Accordingly, our degree programs are expected to play an ever-expanding role in solving such problems. To enhance graduate education, we have started employing proposal-based programs for education and research including recurrent education of mid-career students. Furthermore, we will always remain open to attracting highly motivated domestic and foreign students, and are committed to training them as prospective global leaders.

Educational Aims of Our Degree Programs

The Degree Programs in Systems and Information Engineering aim to foster researchers, educators, and highly skilled professionals equipped with global perspectives, diverse and flexible thinking, originality, and creativity to solve complex and difficult problems in the real world, and capable of taking leader-ship in a multidisciplinary field that integrates systems, information, and society.

To attain this goal, our degree programs are composed as follows:

Master's and Doctoral Programs in Policy and Planning Sciences

- Master's Program in Service Engineering
- Master's and Doctoral Programs in Risk and Resilience Engineering
- Master's and Doctoral Programs in Computer Science
- Master's and Doctoral Programs in Intelligent and Mechanical Interaction Systems
- Master's and Doctoral Programs in Engineering Mechanics and Energy
- Doctoral Program in Empowerment Informatics (5-year doctoral program)
- Master's and Doctoral Programs in Life Science Innovation: Bioinformatics

University of Tsukuba redefines the concept of "degree program"

A degree program refers to an educational program systematically organized to achieve specified learning outcomes that correspond with a human resource development vision and the relevant level of degree, such as master's and doctoral degrees.

Feature 1: "Visualization" of Learning

All students select one of the degree programs for their studies. Students then study based on their learning plan and career plan with the aim of acquiring a degree, while confirming with their supervisors the abilities they have acquired through the learning process.

aster's and l ograms in F anning Scie

> Master's Program in Service Engineering

Master's and Doctoral Programs in Risk and Resilience Engineering

> Master's and Doctoral Programs in Computer

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l Program in ment Informat

Master's and

ind Doctoral in Engineerir

Structure of Our Degree Programs

The image below shows the Degree Programs in Systems and Information Engineering within the wider system of education and faculties at the University of Tsukuba.

The independence of the university's educational and faculty units enables a faculty member to deliver lectures and supervise research across the multiple degree programs.

Each degree program can thus be more flexible and provide practical learning with considerable expertise.

Graduate School of Science and Technology

Degree Programs in Pure and Applied Sciences Degree Programs in Systems and Information Engineering Degree Programs in Life and Earth Sciences

Master's and Doctoral Programs in Policy and Planning Sciences
Master's Program in Service Engineering
Master's and Doctoral Programs in Risk and Resilience Engineering
Master's and Doctoral Programs in Computer Science
Master's and Doctoral Programs in Intelligent and Mechanical Interaction Systems
Master's and Doctoral Programs in Engineering Mechanics and Energy
Doctoral Program in Empowerment Informatics

Master's and Doctoral Programs in Life Science Innovation: Bioinformatics



Feature 2: Extensive interdisciplinary learning beyond traditional organizational barriers

In the degree program system, the framework of traditional programs has been eliminated, and faculty members with experience in a wide range of fields collaborate as they engage in degree program education. All students now have access to research guidance from faculty members with experience in other fields. This was not possible in the past, and enables students to conduct research from a much wider perspective.

Six Features of Our Degree Programs

1. Realization of Society 5.0

Society 5.0 refers to a human-centered society that balances economic advancement with the resolution of social problems through a system that integrates cyberspace and physical space at an advanced level, and was proposed as a future society that Japan should aspire to. Our degree programs mainly aim to realize Society 5.0, which adopts innovative technologies such as the Internet of Things (IoT), artificial intelligence (AI), robotics, and big data into every industry and society as a whole with a focus on developing human resources who can contribute to and activate Society 5.0.

2. Identification of competences to be acquired in each degree program

The university further clarifies generic and specific knowledge and abilities (i.e., competences) to be acquired by students by the time of degree conferment, and organizes systematic curricula aimed at competence acquisition.

Generic Competences Master's program Doctoral program

Generic Competences	Specific knowledge and abilities
Ability to use knowledge /create knowledge	Ability to put advanced knowledge to use in society 🚺 Ability to create new knowledge to be able to contribute to future society D
Communication ability	Ability to express expert knowledge accurately and clearly \mathbb{W} Ability to express the nature of academic findings positively and clearly \mathbb{D}
Management ability	Ability to appropriately address challenges from every angle $\textcircled{0}$ Ability to plan and implement measures to identify and solve challenges from a higher perspective D
Group skill /Leadership ability	Ability to cooperate and actively contribute to the achievement of goals as a team M Ability to accomplish objectives under one's leadership D
International character	Awareness to contribute to the international society High-level of awareness and motivation to be internationally active and contribute to international society D

Specific Competences 🛛 Master's program Doctoral program

Specific Competences	Specific knowledge and abilities				
Research ability	Basic knowledge and ability to set reseach tasks and carry out a research plan in the areas of systems and infomation engineering () Ability to set leading-edge and advanced reseach tasks based on up-to-date specialized knowledge and carry out a research plan independently in the areas of systems and infomation engineering)				
Specialized knowledge	Advanced specialized knowledge and command of the areas of systems and information engineering 🚺 Leading-edge and advanced specialized knowledge and command of the areas of systems and information engineering D				
Ethical view	Ethical view and ethical knowledge appropriate for human resources or highly-skilled professionals equipped with basic research skills in the areas of engineering ()) Ethical view and ethical knowledge appropriate for researchers or highly-skilled professionals in the areas of engineering and deep ethical knowledge about the specific area of expertise ()				

*Specific competences shall be more specified in each degree program.

3. Periodic assessment and evaluation of achievement levels via Achievement Level Assessment System

Our degree programs employ a Achievement Level Assessment System (ALAS).

The ALAS regularly confirms students' achievements and promotes planned study and research to ensure that students can acquire generic and specific competences up until degree completion.

This system actively includes out-of-classroom activities such as academic conference presentations, thesis research, teaching assistant experience, and voluntary activities.

Students can clarify their goals, together with knowledge and abilities to be acquired, by checking how they have learned and how much they have achieved. This also provides opportunities for self-reflection.

Assessment standards and periods, as well as evaluation of achievement levels, may vary depending on degree program.

4. Degree program common courses

In order to provide diverse knowledge in the Systems and Information Engineering field, many degree program courses are specified as common courses which can be studied by all degree program students. These exclude specialized courses, such as compulsory subjects for each degree program. Common courses are divided into two categories: basic subjects and advanced subjects. Basic subjects foster fundamental knowledge and abilities in setting research tasks and executing research plans. Advanced subjects foster specialized knowledge and management ability together with special seminar courses and special research courses for each degree program.

Based on the curriculum outlined above, graduate students can start by learning the basics in their major field of research and then expand as they complete the curriculum of each degree program.

Degree Program Common Courses

Subjects consisting of courses which can be studied by all students in the Degree Programs in Systems and Information Engineering.

Degree Program Specialized Courses

Subjects consisting of courses which can only be studied by students of each degree program.

5. Collaboration with research institutes and companies

Cooperative Graduate School Program

Since it is located in the center of Tsukuba Science City, the University of Tsukuba offers a wealth of opportunities to engage in research collaborations with other institutes in the City.

Our Degree Programs adopt a "Cooperative Graduate School" system aligned with the following research institutes.

We invite researchers from the institutes to serve as Professors (Cooperative Graduate School Program) or Associate Professors (Cooperative Graduate School Program).

which gives students the luxury of carrying out research hand-inhand with such institutes toward completion of their degrees.



Cooperative research institutes with our Degree Programs

 National Institute of Advanced Industrial Science and Technology (AIST)

- Japan Atomic Energy Agency (JAEA)
- Public Works Research Institute (PWRI)
- Japan Aerospace eXploration Agency (JAXA)
- Building Research Institute (BRI)
- National Institute for Environmental Studies (NIES)
- Institute of Physical and Chemical Research (RIKEN)
- National Institute for Materials Science (NIMS)
- National Institute for Land and Infrastructure Management (NILIM)

Collaborative Graduate School Program (Master's and Doctoral Programs in Risk and Resilience Engineering)

Master's and Doctoral Programs in Risk and Resilience Engineering adopt a "Collaborative Graduate School" system. Experts from 13 participating institutions of the Resilience Research and Education Promotion Consortium join full-time professors of the university to deliver this program, which they run collaboratively.

Participating institutions of Resilience Research and Education Promotion Consortium

- SECOM Co., LTD.
- Dai Nippon Printing Co., Ltd. (DNP)
- NEC Corporation
- •Tokyu Property Management Co.,Ltd.
- NTT Space Environment and Energy Laboratories
- DRI Japan
- Central Research Institute of Electric Power Industry (CRIEPI)
- Japan Automobile Research Institute (JARI)
- Electronic Navigation Research Institute (ENRI)
- National Institute of Advanced Industrial Science and Technology (AIST)
- National Research Institute for Earth Science and Disaster Resilience (NIED)
- National Institute of Occupational Safety and Health, Japan (JNIOSH)
- National Science and Technology Center for Disaster Reduction (Taiwan)
- University of Tsukuba



6. Promotion of recurrent education

To promote lifelong learning, our degree programs offer a wide range of support for working individuals who wish to earn a degree.

Early Completion Doctoral Program for Working People

This program is intended for people who are already working and have acquired some relevant research achievements and skills through their professional careers. Doctoral Programs ordinarily take three years as a standard term of study, but this program enables students to complete a doctoral degree program in as little as one year. It has been specifically designed by the university to help working individuals earn a doctoral degree. Students participating in this program receive guidance from supervisors on writing their theses, which are based on research achievements and experience gained while working.

Process Before the Enrollment

After passing the entrance examination (Special Selection Process for Working Individuals), you will become eligible to apply for the Early Completion Program.



IMAI Yoshihito alumnus

Doctoral Program in Intelligent Interaction Technologies (completed in 2020)



Only after becoming a working professional, I realized that my expertise is one of the important evaluation indicators and how I will survive in the future is questioned.

In addition to doing my job at the company smoothly, I chose the path of a PhD student because I thought that I needed an expertise that could create new value to the society. The life as a working PhD student was tough, with work on weekdays and research on holidays, but the days full of intellectual curiosity were very exciting. Now that I am a PhD, I am looking forward to what I can produce in my future career.

Q. Can the quality of the degree granted by this program be assured?

This program adopts a "Achievement Level Assessment System (ALAS)" so that students are able to reliably check their level of achievement. The quality of the degree granted by the program is further guaranteed by external evaluation of the program itself.

Q. What if I don't earn a degree within one year?

If students cannot complete the program in one year because of work or other commitments, they are allowed to extend the period of registration. Furthermore, they may take a leave of absence if they have to suspend the program temporarily.

System for Extending the Period of Registration (M)

In order to support students who wish to earn a degree while working, our degree programs allow students to extend their period of registration. The total tuition fee is the same as when students complete their degrees within the standard course term.



Special Selection Process for Working Individuals (M) D

Entrance examinations (Special Selection Process for Working Individuals) are available for individuals who have been working for more than one year, where such persons are able to utilize experience gained in their careers. Examinees are able to present experience and achievements obtained through their careers in such examinations.

Our degree programs actively welcome working individuals, and starting from entrance examinations for the 2020 academic year we have increased the number of students to be admitted through the Special Selection Process for Working Individuals.

Message from a corporate president who encourages his employees to develop their capabilities

SEKI Masaki

President SEKISHO CORPORATION



As society undergoes a paradigm shift, our company is developing a strategy for growth that looks forward over the next 100 years. We believe that every employee needs the ability to accept diverse values from broad perspectives and have a vision for the future.

That is why we send our employees to the graduate school of the University of Tsukuba, a university with a brandnew concept. We are confident that they will give innovative ideas back to society and foster a corporate climate and business practices characterized by independent thought and self-improvement. We always seek to encourage our employees to improve their abilities.

Find your ideal learning path





The Degree Programs in Systems and Information Engineering comprise eight degree programs. A degree program refers to an educational program systematically organized to achieve specified learning outcomes that correspond with a human resource development vision and the relevant level of degree, such as master's and doctoral degrees.

Although all students select one of the degree programs to study, under the degree program system traditional boundaries between departments have been eliminated, and faculty members with experience in a wide range of fields collaborate as they engage in degree program education. All students now have access to research guidance from faculty members with experience in other fields. This was not possible in the past, and enables students to conduct research from a much wider perspective. Students then study based on their learning plan and career plan with the aim of acquiring a degree, while confirming with their supervisors the abilities they have acquired through the learning process.

Details of our eight degree programs are set out on pages 13 to 30. The introduction to each degree program starts with a graphic representation of the course model describing what kind of courses students can take and what they can aspire to upon program completion.

Use them to identify and compare our eight distinctive degree programs while reflecting on your aspirations and the career plan you have in mind.



Degree Programs in Systems and Information Engineering: Degree Programs Correlation Diagram

Q. What are your aspirations for graduate school? Your answers will identify the most suitable research field for you.

A. I would like to address urban/regional /environmental issues.		
ISHII Norimitsu* URATA Junji EOM Sunyong KAIDA Naoko TOBITA Mikio HASEGAWA Hiroshi* MATSUHASHI Keisuke* MURAKAMI Akinobu M YAMAMOTO Sachiko	Master's and Doctoral Programs	A. I would like to address environm and energy issues.
er's Program in Service Engineering	A. I would like to address urban risk issues such as disaster prevention /crime prevention/transport.	Environmental and Energy Systems AKIMOTO Yutaro OKAJIMA Keiichi KATO Kazuhiko** SUZUKI Kengo
Amemilya Mamoru ARITA Tomokazu USHUJMA Koichi URATA Junji OTA Mitsuru OKAMOTO Naohisa OKUSHIMA Shinichiro KAWASHIMA Hiroichi TANIGUCHI Mamoru TSUTSUMI Morito TOBITA Mikio FUJIL Savaka	Urban Resilience and Disaster Management UMEMOTO Michitaka USUDA Yuichiro** KINOSHITA Yohei SAKAI Naoki** SUZUKI Tsutomu FUJIWARA Hiroyuki** TANIGUCHI Ayako FUJIWARA Hiroyuki**	A. I would like to address cyber risissues with information security
FUJIKAWA Masaki MATSUBARA Kosuke WATANABE Shun WADA Kentaro		OMOTE Kazumasa SHIMAOKA Masaki** TAKAHASHI Taisei NISHIDE Takashi HOSHIKAWA Naoto TSUDA Kazuhiko(Tokyo) YOSHIDA Mitsuo(Toky
AKIYAMA Eizo ANNO Hidekazu UEICHI Hideo OKUBO Masakatsu ORIHARA Masanori SAKUDO Mari SANO Yukie SAWA Ryoji TAKAHASHI Hiroki TRAN Lam Anh Duong HARADA Nobuyuki	A. I would like to address issues /assessment/control with ma Foundations of Risk Analysis and Resi	in risk forecast athematical information. lience Assessment
A. I would like to address business issues. ARIMA Sumika ONISHI Masaki* OKADA Yukihiko KUROSE Yuta SHIGENO Maiko SHIDA Yohei TAKANO Yuichi ZHANG Yongbing HACHIMORI Masahiro PHUNG-DUC Tuan MIAO Ying YOSHISE Akiko	SATO-ILIC Mika ABE Genya** MISAKI Hiroumi ENDO Yasunori KITAJIMA Sou** SATO Toshihisa** FURUKAWA Hiroshi KINO Yasunobu(Tokyo)	ITOH Makoto OKABE Kohei** SAITO Yuichi TAKAYASU Akitoshi KURAHASHI Setsuva(Tokyo)

A. I would like to research durability evaluation technology and advanced	A. I would like to research innovative astronautics.	A. I would like to research disaster control and infrastructure management.	A. I would like to research energ conversion systems for a sustainable society.
for materials.	KAMEDA Toshihiro	ASAI Takehiko	AKI Hirohisa ISHIDA Masayoshi KANACAWA Tatawa KANEKO Akiko
ENAMI Kazuhiro SHINTAKU Yuichi HARADA Yoshihisa* MATSUDA Akihiro MATSUDA Tetsuya MORITA Naoki	SAKAKITA Tajinie SUGITA Hiroyuki* NISHIOKA Makihito FUJINO Takayasu MATSUMOTO Satoshi* MIZUTANI Tadahito* YOKOTA Shigeru	KANAKUBO Toshiyuki SHOJI Gaku NISHIO Mayuko MATSUSHIMA Takashi MITSUME Naoto YASOJIMA Akira YAMAMOTO Kyosuke	SATO Hiroyuki* KODAIRA Daisuke SHEN Biao SHIRAKAWA Naoki DAIRAKU Koji TAKEWAKA Satoshi DENDA Masatoshi* MONJI Hideaki YOO Eunjoo* YOSHIDA Hiroyuki*

As of February 1, 2024

Involute like to research intelligent, user-friendly, computer systems designed for coexistence with humans. AMARA Hayan Markan Mar	 Iwould like to research intelligent, user-friendly computer systems designed for coexistence with humans. em Design IENAGA Naoto KAWASAKI Masahiro KAWAI Shin SHBUYA Takeshi NIIZATO Takayuki NOBUHARA Hajime HASEGAWA Manabu MORTA Masahiko I would like to research human-machine systems and robotics involving both humans and systems. -Machine System and Robotics AlYAMA Yasumichi IZAWA Jun UEHARA Akira AWAMATO Hiroaki KURODA Voshihiro SUZUKI Kenji ZEMPO Keikch TANAKA Fumihide TEZUKA Taro^{-D} NAKAUCHI Yasushi HASHIMOTO Yuki HASSAN Modar HACHISU Taku PUENTES Sandra MOCHIYAMA Hiromi YEM Vibol YANO Hiroaki I would like to research highly mechanized systems such as hardware and associated measurement and control technology, as well as human interaction with such systems. Umentation and Control Engineering NGUYEN Van Triet SAKAINO Sho TAKATANI Tsuyoshi DATE Hisashi MAEDA Yuka YABUNO Hiroshi YAMAQCHI Tomoyuki WAKATSUKI Naoto I would like to research communication systems, human informatics, and multimedia that integrate software and hardware. TUNOUId like to research communication systems, human informatics, and multimedia that integrate software and hardware. I would like to research communication systems, human informatics, and multimedia that integrate software and hardware. I would like to develop intelligent interaction I would like to develop intelligent interaction	AIHARA Ikkyu NGUYEN DAI HAI SANO Yoshio NAKATA Ayako* FUTAMURA Yasunori A. I would like to UNNO Hiroshi KAWAGUCHI Ikkaku MISUE Kazuo YOROZU Ayanori A. I would like to	IMAKURA Akira SHIKANO Yutaka HIRATA Yoshito BOGDANOVA Anna o be an expert ir OHYA Akihisa SHIZUKI Buntarou MIZUTANI Tetsuya	KAWABE Tohr SAKURAI Tetsu TOKUNAGA Ry MORIKUNI Kei nintelligent soft KAMEYAMA Yukiyi TAKAHASHI Shin VASILACHE Simona
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Legend:

- Professors and Associate Professors of the Cooperative Graduate School Program
- ** Professors and Associate Professors of the Collaborative Graduate School Program

(Tokyo) Professors at Tokyo Campus

© Professors in charge of Master's and Doctoral Programs in Intelligent and Mechanical Interaction Systems only

Degrees Awarded: Master of Science in Policy and Planning Sciences, Doctor of Philosophy in Policy and Planning Sciences

Master's and Doctoral Programs in Policy and Planning Sciences

Educational Aims of the Degree Programs

🚺 In the **Master's Program**, students acquire basic knowledge in our three domains (listed below) and expert knowledge of at least one domain.

Financial/Human Resource Design: Finance & Optimization

Spatial/Environmental Design: Urban Planning

Organizational/Behavioral Design: Behavioral Science

The goal of this program is to develop highly capable professionals and international experts equipped with problem-solving skills.

D Furthermore, in the Doctoral program, we aim to develop educators, researchers, and highly capable professionals equipped with skills in problem-finding as well as problem-solving and the ability to achieve internationally recognized research outcomes.

Master's program

For those who aspire to be business consultants, managers of an organization, or financial planners



Doctoral program For those who aspire to be educators at graduate school

		Year 1	Year 2	Year 3	
Graduate General Inter-disciplinary	Education Courses/ Foundation Courses	Globalization and Technology: Key Success Fa Introduction to Academic Integrity	actors for Future		
Degree Programs' Common Courses	Specialized Subjects	• Special Lecture on Policy and Planning Sciences I	• Special Lecture on Policy and Planning Sciences II		Dissertation e
Degree Programs' Specialized Courses	Specialized Subjects	Special Doctoral Seminar in Policy and Planning Sciences 1 Special Doctoral Seminar in Policy and Planning Sciences II Facilitation Training Program in Policy and Planning Sciences I	Special Doctoral Seminar in Policy and Planning Sciences III Special Doctoral Seminar in Policy and Planning Sciences IV	Special Doctoral Research Work in Policy and Planning Sciences I Special Doctoral Research Work in Policy and Planning Sciences II	xaminati
Out-of-classroo	m activities	INFOSS Information Ethics Course, Teaching Assistant, Conference presentation, Poster presentation	Conference presentation, Poster presentation	Compiling the research	n

Career after completion

Educators at graduate school

Those who completed this program are expected to be educators at graduate school who are equipped with abilities in research, education, and management.

• Features of the Degree Programs

○ **Two cycles and five educational focuses shape** educational guidelines for the programs.

The following two cycles foster solution-finding skills:

Social System Cycle for deductive understanding of a social phenomena

Data Analysis Cycle for inductive understanding of a social phenomena

The Five Educational Focuses

1. Find: the ability to deductively understand social phenomena through theory and experiential measurement.

2: Analyze: the ability to inductively understand social phenomena through data analysis.

3: Plan: the ability to design and restructure social systems based on understanding of social phenomena.

4: Do: the ability to create concrete policy proposals and design social experiments based on system design.

5: **See**: the ability to deepen both deductive and inductive understanding of social phenomena by measuring and evaluating social experiments and policy proposals.

○ Multifaceted research supervision by the Advisory Group (AG) and research units.

• Competences of the Degree Programs

Students are able to acquire the following competences up until completion.

Generic Competences						
	Master's Program		Doctoral Program			
	Ability to use knowledge		Ability to create knowledge			
	Management ability		Management ability			
	Communication ability		Communication ability			
	Group skill		Leadership ability			
	International character		International character			
	Specific Comptences					
	Master's Program		Doctoral Program			
Research ability	Basic knowledge and ability to set reseach tasks and carry out a research plan in the field of policy and planning sciences	Research ability	Ability to set leading-edge and advanced reseach tasks based on up-to-date specialized knowledge and carry out a research plan independently in the field of policy and planning sciences			
Specialized knowledge	Advanced specialized knowledge and command of the field of policy and planning sciences	Specialized knowledge	Leading-edge and advanced specialized knowledge and command of the field of policy and planning sciences			
Ethical view	Ethical view and ethical knowledge appropriate for highly- skilled professionals in the field of policy and planning sciences	Ethical view	Ethical view and ethical knowledge appropriate for highly- skilled professionals in the field of policy and planning sciences			

Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

🚺 Master's Program	D Doctoral Program
 ALAS is conducted every semester (four times in total). This system	 Achievement status of the competences and progress of dissertation
is for assessing and confirming each student's achievement status of	are reviewed and assessed by Advisory Group in the following four
the five educational focuses: Find, Analyze, Plan, Do and See, as well	phases: Special Doctoral Seminar in Policy and Planning Sciences I,
as knowledge of the three areas: Financial/Natural Resource Design,	II, III and IV. Furthermore, Dissertation Examination is conducted after going
Spatial/Environmental Design and Organizational/Behavioral Design. Basic Master's Seminar/Special Master's Seminar/Special Master's	through the two phases: Preliminary Examination (a part of Special
Research Work are reviewed and assessed in the following three	Doctoral Research Work in Policy and Planning Sciences I) and
phases: the Research Design Presentation (1st year), the Mid-term	Final Defense (a part of Special Doctoral Research Work in Policy and
Presentation and the Final Presentation (2nd year).	Planning Sciences II).

Degrees Awarded: Master of Engineering in Service Science

Master's Program in Service Engineering

Educational Aims of the Degree Programs

The service sector generates 70% of added value and employment in the current socio-economic environment. Our future lives will require human resources with the knowledge and skills to create new and better services. This has resulted in a dramatic increase in social need for "service engineering" as a new academic field.

The Master's Program in Service Engineering is a professional research degree program which aims to foster nextgeneration leaders who can address service-related social problems today and in the future, create new methods and practices, and contribute to socio-economic development.

Course Model

Master's program For those who aspire to be entrepreneurs and person in charge of corporate planning



• Features of the Degree Program

\bigcirc The world's first degree program based on the empirical research by our faculty

Our empirical research has shown that planning and development of successful services in Japan has similarities with the target costing methods used by Japanese manufacturing firms. These methodologies are systematized using knowledge from four areas: (1) science of effectiveness, (2) science of efficiency, (3) art of integration, and (4) ongoing evolution after initial implementation.

Based on such academic discoveries, our program develops high-level professionals capable of imagining the future by realizing the benefits of basic theory application and systematic development of new and/or better services. Upon completion, students are awarded a Master of Engineering in Service Science. Our vision is to educate our students through cooperation with Japanese service-sector organizations while contributing to regional development and generating advances in technology and pure theoretical research.

Competences of the Degree Program

Students are able to acquire the following competences up until completion.

Generic Competences					
	🚺 Master's Program				
	Ability to use knowledge				
	Management ability				
	Communication ability				
	Group skill				
International character					
Specific Comptences					
Master's Program					
Research ability	Basic knowledge and ability to set reseach tasks and carry out a research plan in the field of service engineering				
Specialized knowledge	Advanced specialized knowledge and command of the field of service engineering				
Ethical view					

Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

Master's Program

• ALAS is conducted every semester (four times in total). In this system, students have a meeting with their supervisors and check their achievement status of the following items together: learning status of the nine compulsory courses, achievement status of the specialized courses, and progress of the Master's thesis.

• Special Seminar in Service Engineering/Special Research Work in Service Engineering are reviewed and assessed in the following three phases: the Research Design Presentation in the 1st year, the Mid-Presentation and the Final Presentation in the 2nd year.

Master's and Doctoral Programs in Risk and Resilience Engineering

Educational Aims of the Degree Programs

Faced with today's increasingly unstable social conditions, our biggest challenge is to create resilient social systems capable of recovering from and flexibly responding to unforeseen contingencies, while maintaining and providing necessary functions. This requires establishment of appropriate risk management systems to provide the strength and flexibility needed to achieve safety and security for an information-based society and economy, at both national and regional levels.

- 🝈 The purpose of the **Master's program** is to foster highly specialized professionals capable of giving back to society as a result of studies pursued in view of real-world issues. The aim is for our graduates to help create a resilient society by applying the results of risk analysis and assessment obtained using engineering methodology.
- D In the Doctoral program, in addition to the above, we aim to foster academic and global human resources equipped with both research skills based on theoretical understanding and advanced practical skills.

Master's program For those who aspire to be security engineers at IT consulting firms



Doctoral program For those who aspire to be researchers at the companies working on self-driving cars

		Year	1	Year 2	Year 3		
Degree Programs' Common Courses	Specialized Subjects	• Human Factors				Dissertatio	Con
Degree Programs' Specialized Courses	Specialized Subjects	Advanced Seminar Resilience Engineer Internship A in Risk Engineering in Doc	in Risk and ing and Resilience toral Program	 Advanced Group Project Based Learning in Risk and Resilience Engineering Risk and Resilience Engineering Case Study 	Advanced Research in Risk and Resilience Engineering	on examinatio	npletion
Out-of-classroo	om activities	Basic learning, Field Making research pre	research, esentation	Field research, Conference presentation, Writing academic papers	Writing academic papers, Compiling the research	ĥ	

Career after completion

Those who completed this program are expected to be researchers of the interaction between human and machine such as selfdriving system in the field of professional and technical service industry.

• Features of the Degree Program

O New educational system: Collaborative Graduate School Program

Faculty members in charge of the degree programs include full-time university faculty members and frontline researchers at companies and research institutions from the Resilience Research and Education Promotion Consortium.

Please see page 7 for more details on our Collaborative Graduate School Program.

• Competences of the Degree Programs

Students are able to acquire **the following competences** up until completion.

Generic Competences						
	🚺 Master's Program		Doctoral Program			
	Ability to use knowledge		Ability to create knowledge			
	Management ability		Management ability			
	Communication ability		Communication ability			
	Group skill		Leadership ability			
	International character		International character			
	Specific Co	mpetences				
	🚺 Master's Program		Doctoral Program			
Fundamental knowledge and abilities in the engineering	Fundamental knowledge and abilities appropriate for highly-skilled professionals in the engineering	Fundamental knowledge and abilities in the engineering	Knowledge and abilities appropriate for researchers or highly-skilled professionals in the engineering			
Knowledge of basic theories and technologies	Knowledge of basic theories for the analysis and assessment of risk and resilience as well as knowledge of information processing technology related to the analysis and assessment of risk and resilience	Knowledge of theoretical bases and technologies	Knowledge of theoretical bases for the analysis and assessment of risk and resilience as well as knowledge of advanced information processing technology related to the analysis and assessment of risk and resilience Knowledge of real-world problems			
Knowledge of real- world problems	Knowledge of real-world problems subject to risk and resilience engineering	Knowledge of real- world problems	Profound knowledge of real-world problems subject to risk and resilience engineering			
Broad perspectives	Ability to see the scope of risk and resilience engineering from a broad perspective	Broad perspectives	Ability to see the scope of risk and resilience engineering from broad and comprehensive perspectives.			
Abilities in identifying and solving problems	Abilities to understand the process of identifying problems to solving them and develop specific solutions	Abilities in identifying and solving problems	Abilities to deeply understand the process of identifying problems to solving them and develop specific and creative solutions			
Global communication skills	Abilities to take responsibilities when working in research groups and projects, have sufficient communication skills, and take leadership when necessary	Global communication skills	Abilities to take responsibilities when working in research groups and projects and take leadership with effective communication skills			

Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

•	
🛄 Master's Program	Doctoral Program
ALAS works as quality assurance in education. In the Master's Program, ALA is conducted based on the following six perspectives.	ALAS works as a quality assurance system in education. In the Doctoarl Program, ALA is conducted based on the following six perspectives.
1. Fundamentals of engineering: Basic knowledge and academic skills of advanced professionals in engineering were gained	 Fundamentals of engineering: Basic knowledge and academic skills of researchers or advanced professionals in engineering were gained
 Knowledge of basic theories and related skills: Knowledge of fundamental theories for risk and resilience analysis and assessment, and knowledge of information processing technologies related to risk and resilience analysis and assessment were gained 	2. Knowledge of basic theories and related skills: Knowledge of theoretical foundations for risk and resilience analysis and assessment based on fundamentals of engineering, and knowledge of advanced information processing technologies related to risk and resilience analysis and assessment were gained
 Knowledge of issues in the real world: Knowledge of real-world issues covered by risk and resilience engineering was gained 	3. Knowledge of issues in the real world: In-depth knowledge of real- world issues covered by risk and resilience engineering was gained
 Broad perspective overlooking circumstance: Ability to see the subject of risk and resilience engineering from a broad perspective was gained 	 Broad perspective overlooking circumstance: Ability to see the subject of risk and resilience engineering from a broad and
5. Abilities of problem setting and solving: Ability to understand the process from setting up problems to solving them by engineering means, and to devise and develop specific solutions for problems related to risk and resilience were gained	 Comprehensive perspective was gained Abilities of problem setting and solving: Ability to understand the process from setting up problems to solving them by engineering means in depth and to devise and develop specific solutions for problems related to risk and resiliance were agained
6. Global communication ability: Ability to fulfill assigned roles in a research team or research project, demonstrate adequate communication skills, and take on leadership roles as needed was gained	 Global communication ability: Ability to fulfill assigned roles and take leadership in a research team or research project with high communication skills was gained
In the ALA, each student have a meeting with more than three faculty members and get feedback in the ALA committee which is conducted twice a year. Students get feedback and use them to improve learning plan. In the final ALA, when students are approved that they are eligible for Master of Engineering in the all six items, they can be reparded as passion of the final examination	In the ALA, each student have a meeting with more than three faculty members and get feedback in the ALA committee which is conducted twice a year. Students get feedback and use them to improve learning plan. In the final ALA, when students are approved that they are eligible for Ph.D in Engineering in the all six items, they can be regarded as passion the final explanation.

Master's and Doctoral Programs in Computer Science

Educational Aims of the Degree Programs

(M) In the **Master's Program**, we aim to foster human resources who are equipped with:

- In-depth expertise in various information technology fields
- Knowledge needed in international society
- Professional research capabilities and practical skills
- Creativity and flexibility
- We also aim to develop people who can utilize these abilities to contribute to problem-solving in specific fields.
- In the Doctoral Program, in addition to the above, we aim to foster human resources who can lead problemsolving efforts.

Master's program For those who aspire to be experts of making use of IT skills for applied science



Doctoral program

For those who aspire to be researchers who apply informatics to science and engineering



Career after completion

Those who completed this program are expected to initiatively be engaged in research and education which apply informatics to science and engineering in research and educational institutions, and develop innovative technology. Furthermore, some of them are expected to take the initiative in solving complicated social problems using information technology in companies, research and educational institutions, and public offices.

• Features of the Degree Program

○ The Center for Artificial Intelligence Research (C-AIR) serves as a hub for advanced research projects

The C-AIR acts as a hub for interdisciplinary research, fostering groundbreaking research projects in the field of artificial intelligence.

\bigcirc Practical, appealing curriculum delivered through industry-academia collaboration

We offer courses in collaboration with industry, PBL courses, courses that develop teaching skills, and courses in new and advanced research fields.

○ The Computer Science English Program

The Computer Science English Program fosters qualified international researchers in computer science. This program is for those who wish to earn a Master's degree, and all lectures are conducted in English. The program aims to foster international-minded human resources who can work on a global scale.

• Competences of the Degree Programs

Students are able to acquire the following competences up until completion.

Generic Competences				
	Master's Program		Doctoral Program	
	Ability to use knowledge		Ability to create knowledge	
	Management ability		Management ability	
	Communication ability		Communication ability	
	Group skill		Leadership ability	
International character			International character	
	Specific Co	mpetences	i	
	Master's Program	Doctoral Program		
Research ability	Abilities to identify unsolved problems based on advanced specialized knowledge and technologies in a wide range of information technology fields, draw a map to solve them, and successfully achieve it	Research ability	Abilities to identify unsolved problems based on leading- edge and advanced specialized knowledge and technologies in a wide range of information technology fields, draw a map independently to solve them, and successfully achieve it	
Specialized knowledge	Advanced specialized knowledge, technologies, and command of them in a wide range of information technology fields	Specialized knowledge	Leading-edge and advanced specialized knowledge, technologies, and command of them in a wide range of information technology fields	
Ethical view	Enlightened ethical view in a wide range of information technology fields	Ethical view	Enlightened ethical view in a wide range of information technology fields	

Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

🚺 Master's Program	D Doctoral Program
• Assessment of learning outcomes is conducted based on "Achievement Level Assessment sheet (ALA sheet)".	At Research in Computer Science/Computer Science Seminar A as compulsory subjects, supervisors check their students' research programs.
• At "CS Seminar" of the 1st year, students give a presentation of the	progress.
research outcomes and receive assessment and feedback.	 At "CS Research Seminar", students give a mid-term presentation of their research and get feedback.
At the end of the 1st year, students check the ALA sheet and their	
achievement status with their supervisors and review learning plan of the 2nd year.	 At Doctoral Final Examination, students are assessed based on degree examination criteria which prescribed separately.
 At Master's Thesis Mid-term Presentation at the 2nd year, students give a presentation of the research outcomes for writing Master's thesis and receive mid-term assessment and feedback. 	

Master's and Doctoral Programs in Intelligent and Mechanical Interaction Systems

Educational Aims of the Degree Programs

In the Master's Program, we aim to foster highly skilled professionals who can identify and solve problems from broad perspectives, equipped with the following attributes:

- Fundamental knowledge and high ethical standards in the field of engineering
- Specialized knowledge and skills relating to intelligent and mechanical interaction systems*
- Research skills

In the Doctoral Program, we aim to foster researchers and highly skilled professionals who can identify and solve crucial problems from broad perspectives, equipped with the following attributes:

- Broad knowledge and sound ethics in the field of engineering
- Advanced specialized knowledge and skills relating to Intelligent and Mechanical Interaction Systems*
- lacet Research skills enhanced by creativity

*Intelligent and Mechanical Interaction Systems (IMIS) are engineering systems which are developed based on mathematical models that represent complex human, social, and natural phenomena and theories from disciplines such as mathematics, physics, and informatics. Such systems contribute to society through the cooperation of elements with various functions.

Master's program T For those who aspire to be professional engineers who are engaged in developing products and systems at companies in the electrical / mechanical / information and communication fields.





Master's program (2) For those who aspire to go on to the doctoral program.





For those who aspire to be educators at universities and researchers at national research institutes. / For those who aspire to be high-level professional engineers who are engaged in research development at companies in the electrical / mechanical / information and communication fields.

	Year 1	Year 2	Year 3			
Degree Programs' Specialized Subjects Specialized Courses	 Research in IMIS A International Conference Paper Presentation Workshop in IMIS Research Paper Presentation Workshop in IMIS I Collaboratory Research Workshop in IMIS III Reseach Proposal Writing Workshop in IMIS III 	 Research in IMIS B Research Paper Presentation Workshop in IMIS II Collaboratory Research Workshop in IMIS IV Research Proposal Writing Workshop in IMIS IV 	• Research in IMIS C	Dissertation examina	Completion	
Out-of-classroom activities	IINFOSS Information Ethics Course, Teaching Assistant, International conference presentation, Peer-reviewed journals(First author)	APRIN, Teaching Assistant, Conference presentation, Internship, Peer-reviewed journals(First author), Poster presentation	Conference presentation, Peer-reviewed journals (First author), Achievement Level Self-Assessment Report	tion		

Those who completed this program are expected to be educators at universities, researchers at national research institutes, or high-level professional en-

Career after completion

gineers who are engaged in research development at the companies in electrical / mechanical / information and communication fields.



Features of the Degree Program

In order to provide students with systematic education, it is necessary to strengthen the systematic development of education in line with the purpose of the curriculum-based graduate school system, which awards a specific degree to those who have completed a given course of education. This program aims to validate graduate school education through the following measures.

1. Reinforcement of the interconnection between Master's and Doctoral programs

This course is divided into Master's and Doctoral programs, but has a unified five-year educational curriculum. In addition, in cooperation with the College of Engineering Systems, we provide an integrated educational program for six years (undergraduate + Master's degree) or nine years (undergraduate + Master's degree + Doctoral degree) to develop engineers and researchers who meet the needs of the times. Even if a student enters at the level of the master's program or the Doctoral program, it is possible to receive almost the same education by taking additional basic mathematics courses, undergoing remedial education, and conducting special experiments.

2. Curriculum organization focusing on research skill development

In addition to specialized subjects aimed at acquiring specialized knowledge in each field, core subjects, basic mathematics subjects, tool exercises, English exercises, and special exercises are provided as common subjects in order to enhance research skills.

3. Multiple supervisor system

This program has a multi-advisor system under which each graduate student has one supervisor and two assistant supervisors. Students can participate in research activities not only in their own laboratory, but also in seminars led by the assistant supervisors, and receive guidance from the assistant supervisors during graduate school seminars.

4. Graduate school seminars

When students present their research in this program, question and answers sessions are conducted to facilitate discussion of the presented work. These sessions are held weekly in a multidisciplinary fashion where presenters receive feedback through comments and questions from supervisors, other professors, and students. In addition, a poster presentation takes place at the fall semester. Along with faculty members and students, many company representatives attend this presentation, which serves as a job-hunting event.

5. Cooperative Graduate School System

Tsukuba Science City is home to a variety of research institutions besides the University of Tsukuba. A network for active scientific exchange has been constructed among all these institutions. Through this program, a degree can be obtained by receiving research guidance from faculty members (Cooperative Graduate School Program) of the National Institute of Advanced Industrial Science and Technology (AIST).

6. Dual degree program (DDP)

This course allows students to enroll in the Doctoral program (main degree program), while concurrently enrolling in a sub-degree program enabling them to participate in a Master's program, a professional degree program offered by other research groups, or other degree programs. The DDP allows students to obtain a Master's degree corresponding to another degree program.

7. Active promotion of early completion

Early Completion Doctoral Program for Working People:

Our curriculum allows students to complete the Doctoral program in a minimum of one year.

Early completion program for general students:

Students who have achieved outstanding research results in the Master's program, completed the course with excellent grades, and proceed to the IMIS Doctoral program have the opportunity to shorten the Master's program by one year. Students showing outstanding achievements during the Doctoral program, are offered the possibility to complete their studies in one year at least. A student who complete the Master's course early and show eligibility to complete his/her Doctoral course early must be enrolled for at least two years in the Doctoral program.

8. Classes for working students

The University of Tsukuba has been enhancing education for working students in cooperation with industry and other organizations. This program also offers online courses for working students.

9. Student Awards

Students who have achieved outstanding results are recommended as candidates for the President's Award or the Dean's Award. A Master's thesis award and the Program Chair's award are also bestowed independently within our programs.

• Competences of the Degree Programs

Students are able to acquire **the following competences** up until completion.

Generic Competences				
🚺 Master's Program			D Doctoral Program	
	Ability to use knowledge		Ability to create knowledge	
	Management ability		Management ability	
	Communication ability		Communication ability	
	Group skill		Leadership ability	
	International character		International character	
	Specific Co	mpetences		
	Master's Program	D Doctoral Program		
Research ability	Abilities and basic technics to set appropriate research tasks, carry out a research plan, and attain meaningful achievements in the field of IMIS	Research ability	Abilities and advanced technics to set leading-edge research tasks, carry out a research plan independently, attain remarkable achievements in the field of IMIS, and communicate them to the local and international community	
Specialized knowledge	Fundamental knowledge and ability appropriate for highly- skilled professionals in the field of engineering as well as advanced specialized knowledge and command of the field of IMIS	Specialized knowledge	Cutting-edge knowledge and advanced academic abilities suitable for researchers or highlyskilled professionals in the field of engineering as well as the field of IMIS	
Ethical view	Ethical view and knowledge appropriate for researchers or highly-skilled professionals equipped with fundamental research skills in the field of engineering	Ethical view	Ethical view and knowledge appropriate for researchers or highly-skilled professionals equipped with advanced research skills in the field of engineering and profound ethical knowledge related to the field of IMIS	

• Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

Master's Program	D Doctoral Program
 In Seminar in IMIS I, students are evaluated while giving a presentation, summarizing their research outcomes during the first year. In Seminar in IMIS II, students are evaluated while giving a presentation, summarizing their research outcomes. This presentation will be the basis of their thesis. The supervisors regularly conduct ALA by evaluating the results of students' ALA self-assessment. 	 In Research in IMIS A, students are evaluated while giving a presentation, summarizing their research outcomes. In Research in IMIS B, students are evaluated while giving a presentation, summarizing their research outcomes. In case of students joining the Fast-track Doctoral Program, the evaluation is based on peer-reviewed journals publications. In Research in IMIS C, a preliminary examination for dissertation is conducted.
 ALA examination is a requirement for degree completion and is conducted as a final exam. The examination is based on ALA standards and therefore is conducted separately by ALA's committee by assessing the evaluation plan proposed by the student's supervisor. 	 The supervisors regularly conduct ALA by evaluating the results of students' ALA self-assessment. ALA examination is a requirement for degree completion and is conducted as a final exam. The examination is based on ALA standards and therefore is conducted separately by ALA's committee by assessing the evaluation plan proposed by the student's supervisor.

Degrees Awarded: Master of Engineering, Doctor of Philosophy in Engineering

Master's and Doctoral Programs in Engineering Mechanics and Energy

Educational Aims of the Degree Programs

- In the Master's Program, we aim to foster researchers and highly skilled professionals who have not only advanced specialized knowledge in an engineering field such as machinery, architecture, social infrastructure, energy, and aerospace, but also a broad perspective in the relevant research field and the ability to identify specific problems, propose unique solutions, and effectively disseminate outcomes domestically and internationally.
- In the Doctoral Program, in addition to developing the abilities listed above, we aim to foster educators, researchers, and highly skilled professionals who can manage research projects appropriately, take leading roles in society, and educate the next generation studying in the engineering field.

🚾 🚺 Master's program

For those who aspire to be highly skilled professionals in mechanical, civil, energy, and aerospace engineering



Doctoral program

For those who aspire to be researchers and educators in mechanical, civil, energy, and aerospace engineering



Career after completion

Those who completed this program are expected to be researchers and innovators at companies of mechanical, civil, energy, and aerospace field, educators at universities and researchers at national research institutes.

• Features of the Degree Programs

\bigcirc Interdisciplinary education and research

The focus of our education and research is **macro-engineering technology based on mechanics**, where traditional boundaries between categories of engineering are being removed and disciplines are being integrated. We aim to foster engineers who have a broad perspective and creativity spanning conventional boundaries in the field.

\bigcirc Education and research by the Cooperative Graduate School

Researchers from national institutes such as the National Institute of Advanced Industrial Science and Technology (AIST), the Japan Aerospace eXploration Agency (JAXA), the Japan Atomic Energy Agency (JAEA), and the Public Works Research Institute (PWRI) are appointed as professors and associate professors of our university and provide students with research guidance utilizing the research facilities of their institutes.

• Competences of the Degree Programs

Students are able to acquire **the following competences** up until completion.

Generic Competences					
🚺 Master's Program			D Doctoral Program		
	Ability to use knowledge		Ability to create knowledge		
	Management ability		Management ability		
	Communication ability		Communication ability		
	Group skill		Leadership ability		
International character			International character		
	Specific Competences				
	🚺 Master's Program	D Doctoral Program			
Research ability	Ability to identify problems in engineering mechanics and energy, propose solutions, and achieve them.	Research ability	Ability to identify advanced problems in engineering mechanics and energy, propose solutions, and achieve them.		
Specialized knowledge	Ability to apply basic academic ability and advanced knowledge in engineering mechanics and energy.	Specialized knowledge	Ability to apply basic academic ability and leading-edge and advanced knowledge in engineering mechanics and energy.		
Ethical view	Ethical view and ethical knowledge appropriate for highly-skilled professionals in the areas of engineering	Ethical view	Ethical view and ethical knowledge appropriate for highly-skilled professionals in the areas of engineering		

• Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors**.

Master's Program	D Doctoral Program
• Supervisors and assistant-supervisors check the student's learning status of common subjects and specialized subjects.	Supervisors and assistant-supervisors check the student's learning status of common subjects.
 Students give a presentation on research outcomes of the 1st year and those are assessed in Seminar in Engineering Mechanics and Energy I. In Seminar in Engineering Mechanics and Energy II, students clarify their own research's position. Then they give a presentation on research outcomes of the 2nd year and those are assessed. Students give a presentation at the Master's thesis examination and the final defense. It will be assessed by the examination comittee. 	 Students give a presentation on research outcomes and those are assessed in Seminar in Engineering Mechanics and Energy. Students give a presentation at the Doctoral dissertation examination and the final defense. It will be assessed by the examination comittee.

Degrees Awarded: Master of Human Informatics, Doctor of Philosophy in Human Informatics

Doctoral Program in Empowerment Informatics

Educational Aims of the Degree Programs

Informatics supplements and extends human functions, enabling technology to work in harmony with people.

This five-year doctoral program aims to produce global leaders who can design systems that empower humans. Such leaders will be capable of exercising initiatives in a global community bringing together people of diverse cultural backgrounds.

were Model MD 5-year Doctoral program For those who aspire to be global leaders who work actively in various industries





Features of the Degree Programs

The word "empowerment" originally means to "give abilities and powers to people." It has been used in a sociological sense to explain the process of realizing a society where individuals or groups can exert their latent abilities. In recent years, empowerment has been practiced in the fields of nursing and business. Empowerment Informatics is a branch of informatics that has been systematized to encourage and support human independence and autonomy, improving the quality of life.

In order to develop the abilities students need to create systems capable of empowering people, we offer an unique curriculum focused on developing **three competences: Interdisciplinary Ability, Presentation Ability, and Frontline Ability**.

We have established a collaborative system in a multidisciplinary field consisting of informatics, engineering, art, psychology, neuroscience, clinical medicine, nursing science, business science, and corporate law, and foster **global human resources**; aiming to take the initiative and design systems that empower people in an international community with diverse cultural backgrounds.

Competences of the Degree Programs

Students are able to acquire the following competences up until completion.

Generic Competences			
	🕪 5-year Doctoral Program		
	Ability to create knowledge		
	Management ability		
	Communication ability		
	Leadership ability		
	International character		
	Specific Competences		
	🕪 5-year Doctoral Program		
Interdisciplinary ability	terdisciplinary ability Ability to apply specialized knowledge and relevant knowledge in the field of human informatics to various issues.		
Presentation ability	Ability to set cutting-edge research tasks and produce internationally recognized research outcomes.		
Frontline ability	ontline ability Ability to plan to solve real-world issues and give a presentation on them, based on ethical standards and ethical knowledge appropriate for researchers or highly-skilled professionals in the field of human informatics.		

Achievement Level Assessment System (ALAS)

ALAS enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

S-year Doctoral Program Assessment of learning outcomes is conducted based on "Standards of Achievement Level Assessment". At the EMP seminars of the 1st and 2nd year, students report their research progress and get assessment and feedback. At the end of the 1st to 4th year, students submit their Achievement Level Self-Assessment Report, undergo the Achievement Level Assessment from the research supervisor and confirm their research progress. At the end of the 2nd year, the Qualifying Examination (QE) is conducted. When students pass QE, they are able to earn the Master's degree and then start the research for doctoral dissertation.

• When students pass the Final Assessment of Student Achievement (FASA) conducted at the 5th year, they are able to submit the doctoral dissertation.

Degrees Awarded: Master of Bioinformatics, Doctor of Philosophy in Bioinformatics

Master's and Doctoral Programs in Life Science Innovation: Bioinformatics

Educational Aims of the Degree Programs

In the Master's Program, we aim to foster highly skilled professionals who can use bioresources to open up new paths of progress in life sciences research and work on a global scale in the field of developing and managing innovative pharmaceuticals and functional foods.

In the Doctoral Program, we aim to foster highly skilled professionals and researchers who can produce internationally recognized research outcomes and work on a global scale in the field mentioned above.

ourse Model

Master's program

For those who aspire to be professionals and business person who are equipped with knowledge of bioinformatics and work on the global scale.

	Year 1	Year 2		Career after completion
Graduate General Education Courses		Applied Ethics Introduction to Environmental Ethics		
Inter-disciplinary Foundation Courses	Special Lecture on Science Communication			Those who completed this
Basic Subjects	Introduction to Medicine Introduction to Drug Discovery Basic Bioinformatics Introduction to Food Science Master's Life Science Innovation Seminar Practices in Life Science Innovation Team Learning in Life Science Innovation Responsible Conduct of Research Master's Internship Introduction to Bioresource Introduction to Natural History	• Management in Pharmaceuticals and Food • Regulatory Science	Comple Thesis exami	be researchers, technical experts, business person, and civil servants in the area of Health Science, Medical care, Pharmaceuti- cal, Food, and Environmen- tal industries.
Specialized Subjects	Life Science Innovation Master's Special Seminar I Spring Life Science Innovation Master's Special Research I Spring Biomolecule and Medical Informatics Computational Biology Molecular and Cellular Biology of Disease I/ II Advances in Cellular Regulation Life Science Innovation Master's Special Seminar I Fall Life Science Innovation Master's Special Research I Fall Gene Analysis and Functional Genomics	Life Science Innovation Master's Special Seminar II Spring Life Science Innovation Master's Special Research II Fall Life Science Innovation Master's Special Research II Fall Life Science Innovation Master's Special Research II Fall	tion nation	
Out-of-classroom activities	Achievement Evaluation	Midterm presentation, Achievement Evaluation		

Doctoral program

For those who aspire to be reseachers who are equipped with knowledge of bioinformatics and work on the global scale.

	Year 1	Year 2	Year 3	
Graduate General Education Courses	Global Communication Skills Training English Presentations Applied Ethics			Dis
Basic Subjects	Human Subjects Research: Basic Doctor's life science innovation seminar	• Doctor's Internship		sertatio
Specialized Subjects	Life Science Innovation Doctor's Special Seminar I Spring Life Science Innovation Doctor's Special Research I Spring Life Science Innovation Doctor's Special Seminar I Fall Life Science Innovation Doctor's Special Research I Fall	Life Science Innovation Doctor's Special Seminar Spring Life Science Innovation Doctor's Special Research Spring Life Science Innovation Doctor's Special Seminar Fall Life Science Innovation Doctor's Special Research Fall	 Life Science Innovation Doctor's Special Seminar III Spring Life Science Innovation Doctor's Special Research III Spring Life Science Innovation Doctor's Special Seminar III Fall Life Science Innovation Doctor's Special Research III Fall 	n examinatio
Out-of-classroom activities	Achievement Evaluation	Midterm presentation, Achievement Evaluation	Achievement Evaluation III	ß

Career after completion

Those who completed this program are expected to be researchers, technical experts, business person, and civil servants and be globally active to solve issues in the area of Health Science, Medical care, Pharmaceutical, Food, and Environmental industries.

• Features of the Degree Programs

\bigcirc Collaborative Graduate School System

In addition to full-time faculty members at the university, researchers from institutes belonging to the Life Science Promotion Association of Tsukuba (known as professors of the Collaborative Graduate School Program) play active roles in education and research. Under this system, students work on unresolved problems in society and open up paths to new progress in the field of bioinformatics.

Classes are conducted in English, and overseas researchers participate in education and research
 To foster highly skilled professionals capable of working on a global scale, all lectures in our programs are conducted in English, and leading researchers from overseas research institutes conduct lectures and seminars.

• Competences of the Degree Programs

Students are able to acquire the following competences up until completion.

Generic Competences				
	🚺 Master's Program	D Doctoral Program		
	Ability to use knowledge		Ability to create knowledge	
	Management ability		Management ability	
	Communication ability		Communication ability	
	Group skill		Leadership ability	
Global competency		Global competency		
	Specific Co	mpetences		
	🚺 Master's Program	Doctoral Program		
Innovation potential	Creative thinking ability for use in the field of life sciences	Innovation potential	Ability to produce novel innovations in the field of life sciences	
Expertise	Excellent knowledge and operation skills in one's own specialized field	Expertise	The latest knowledge on the specialized field	
English language proficiency	Proficiency in the use of the English language for communicating, understanding , and expressing ideas in life science field	English language proficiency	Ability to communicate using the English language when carry out all research-related activities in international setting	

• Achievement Evaluation (AE) & Thesis Defense

AE enables students to **confirm their achievement status** related to knowledge and abilities (generic/specific competences) which must be acquired and **improve their learning plan with their supervisors.**

🚺 Master's Program	D Doctoral Program
\bullet A year after the enrollment, AE committee composed of the research supervisor and the two assistant-supervisors conducts Achievement Evaluation I .	\bullet A year after the enrollment, AE committee composed of the research supervisor and the two assistant-supervisors conducts Achievement Evaluation $~[$
 A year and six months after the enrollment, the chief examiner and the two assistant-examiners conduct a mid-term examination of Master's research progress. 	 A year and six months after the enrollment, the chief examiner and the three assistant-examiners conduct a mid-term examination of Doctoral research progress.
\bullet Four months before completion (expected), AE committee composed of the research supervisor and the two assistant-supervisors conducts Achievement Evaluation $ I\!I$.	${}^\bullet Two year after the enrollment, AE committee composed of the research supervisor and the two assistant-supervisors conducts Achievement Evaluation I\!I .$
 Two months before completion (expected), the chief examiner and the two assistant-examiners conduct a final examination based on presentation and defense of the Master's thesis. 	• Five months before completion (expected), AE committee composed of the research supervisor and the two assistant-supervisors conducts Achievement Evaluation ${\rm III}$.
	 Five months before completion (expected), the chief examiner and the three assistant-examiners conduct a preliminary examination of Doctoral dissertation.
	 Three months before completion (expected), the chief examiner and the three assistant-examiners conduct a final examination based on presentation and defense of the dissertation.

Vaster's and Doctoral Programs in Life Scienc nnovation



Spend quality time on our open-air campus Campus Life

This section provides an overview of campus life at the University of Tsukuba.

Our Tsukuba campus is located in Tsukuba Science City, which sustains harmony between an academic atmosphere and an abundant natural environment. The 258-hectare university grounds are dotted with forest parks, and one of the features is that there is no main gate. This symbolizes that our university is an open university in all aspects, as declared in our mission statement. A diverse range of students, including international students and working people, study in this environment, enjoying strong support from the university and our degree programs.

Think about what your campus life will be in our university while referring to the following pages including our students' voices.

Campus Life

Residences

• On-campus housing

The University provides single-person and family residences for both Japanese and international students who wish to stay in student halls of residence.

More than 3,000 single rooms and 100 family rooms are located across four areas: Hirasuna, Oikoshi, Ichinoya and Kasuga.

Furthermore, our "Global Village" offering shared accommodation for Japanese and international students opened in 2017.

Off-campus housing

There are many apartments and condominiums near the campus. When looking for an apartment, visit a real estate agency and tell them what you are seeking in a place to live.

Admission and Tuition Fees

Examination Fee: 30,000 JPY Admission Fee: 282,000 JPY Annual Tuition Fee: 535,800 JPY

Note: Upon request, tuition fees may be partially or fully waived for students with excellent academic performance who require financial support.





Financial Supports

1. Scholarships 🚺 🕖

(A) Japanese Government (MONBUKAGAKUSHO: MEXT) Scholarships

MEXT offers a number of scholarships to overseas stundets who wish to study in Japan. Applicants for the scholarships are made either through Japanese embassies or consulates-general overseas (embassy recommendations) or through a university in Japan (university recommendations).

(B) Scholarships for privately-financed students

Scholarships for privately-financed international students are divided into two types according to the application method: The first type of scholarship requires application through the university, while the second type allows direct application to the scholarship foundation.

2. Admission Fee and Tuition Waiver 🚺 D

Students who require financial support may be partially or fully exempted from payment of admission fees and tuition fees, or may be allowed to delay payment upon request.

3. Teaching Assistant (TA) and Research Assistant (RA) System

TA System 🚺 D:

Our degree programs actively employ students as TAs. This system enables students to receive training to be educators and researchers in the future. Master's program students who became TAs assist with undergraduate program classes, and Doctoral program students assist with classes in Master's programs and undergraduate programs.

RA System D:

Furthermore, Doctoral Program students can receive training as researchers and gain financial support as RAs.

This system enables young researchers to develop their research abilities, and faculties to develop research support systems for our degree programs.

For more information on international students, please refer to the Enrollment Guidebook: https://www.tsukuba.ac.jp/en/ admissions/guidebook-enrollment/



Students' Voices

BAO Xingyu

Master's Program in Service Engineering (completed in 2021)



I enrolled in this program in order to develop my research skills and problem-solving skills.

I am living fulfilling research life by taking advantage of the regional characteristics of the Tsukuba Science City and the concept of Policy and Planning Sciences.

In the past year, I have gained specialized knowledge in smallersized classes and even experienced out-of-university-collaboration projects with Kashima Antlers and Teshio Town, Hokkaido. Master's Program in Service Engineering is a cutting-edge and appealing program where you can be inspired by the people who are leading new generations and develop yourself.

SONG Shengmei



Master's Program in Computer Science (completed in 2021)

I was both excited and nervous when I came to the University of Tsukuba in 2019.

Since the UT is an international-friendly university, I unexpectedly got used to the new life soon.

There are many international students here so that you could get some tips from other international friends around you.

Thanks to my lab mates and my supervior, I found the research field that matchs my interests and started a research on User Interface.

You might be anxious sometimes when you are far from home. However, I believe that studying in the UT really paid off because I enjoy the campus life and Japanese culture.

LEE Jieun

Doctoral Program in Risk Engineering (completed in 2020)



I believe that there are some requirements to be a good researcher: problem-solving skills, aspirations, and presentation skills.

Master's/Doctoral Program in Risk Engineering are appealing programs which provide students opportunities to develop these skills.

The main feature of Master's/Doctoral Program in Risk Engineering is that they have four research fields defined as Total Risk Management, Cyber Risk, Urban Risk, and Environment and Energy Risk, and both academic and practical approaches could be applied in all four fields.

In the lectures, we can develop our intellectual abilities while learning the definition of the word "Risk". In the group works and research, on the other hand, we can wider our perspectives while proposing and assessing solutions to risks in the current society.

The portfolio system where students compile their achievements every month and the Achievement Level Assessment System where students report their progress every six months make them reflect on what they have learned. That also could be an opportunity to receive useful advices from professors.

Your experiences in this program encourage you to start your career as a researcher who can solve risks in the society.

Career Paths



Career after Graduation

CRI Middleware, IHI, KADOKAWA Connected, KDDI, LINE, NEC Solution Innovators, NTT COMWARE, NTT DATA, NTT docomo, NTT EAST, PwC Consulting, Sky, SUBARU, Accenture , kubota, KOEI TECMO, Cyber Agent, cybozu, Simplex, Sony Interactive Entertainment, Sony Group, Sony Semiconductor Solutions, SoftBank, DNA, Mizuho Financial Group, Yahoo Japan, Yamaha Motor, Ebara, Yokogawa Electric, Rakuten Group, CTI Engineering, Ministry of Land, Infrastructure and Transport, Mitsubishi Electric, AIST, Sumitomo Heavy Industries, Sumitomo Electric Industries, Komatsu, SHIMIZU, The Shizuoka Bank, Kawasaki Heavy Industries, Railway Technical Research Institute, Urban Renaissance Agency, TOKYO GAS, Toshiba Digital Solutions, Nissan Moter, NEC, Hitachi, FUJITSU, Nomura Research Institute

Careers taken by those who completed with doctoral degrees in 2022



Career after Graduation

KDDI, LINE, RevComm, Sony Group, INSERM, Heidelberg University, AIST, University of Tsukuba, Tohoku University, Japan Society for the Promotion of Science, Hitachi, Ningbo University, National Agriculture and Food Research Organization, NIED, Zheijang University of Finance & Economics

Admissions

Outline of Admission Procedures

In order to welcome a diverse range of outstanding students from inside and outside the university, several times each year the Degree Programs in Systems and Information Engineering offer different kinds of entrance examinations as below.

Types of selection process:

- 1. General Selection Process
- 2. Special Selection Process for Working Individuals
- 3. Special Selection for Overseas Residents (Doctoral Programs)

Applicants' qualifications will be assessed through a foreign language exam, a written exam, or an oral exam, or a combination of these. Furthermore, some degree programs require official academic transcripts. For the foreign language exam, applicants must submit official score certificates for either TOEFL, TOEIC or IELTS. Some degree programs and types of selection do not require written exams. Note that applicants must take all exams designated, and will be failed if absent from one of the designated exams.

For the latest information on admission, please refer to the webpages below.

 General Selection Process / Special Selection Process for Working Individuals:

University of Tsukuba Graduate Admissions https://eng.ap-graduate.tsukuba.ac.jp/

 Special Selection for Overseas Residents (Doctoral Programs):

Degree Programs in Systems and Information Engineering

https://www.sie.tsukuba.ac.jp/eng/visitor/exam/entra/

Admission Schedules

Master's Programs	General Selection Process : August and January- February Special Selection Process for Working Individuals : August and January-February
Doctoral Programs	 General Selection Process : August and January- February Special Selection Process for Working Individuals: August and January-February * Special Selection for Overseas Residents : January- February and July

*For the Doctoral Program in Risk and Resilience Engineering, applicants may take the exam at the Tokyo Campus on a Saturday or Sunday.

Access

Tsukuba Express (TX)

45 minutes from Akihabara Station to Tsukuba Station by rapid train. It takes about 10 minutes to "Dai-San Area Mae" from the bus stop No.6 at Tsukuba Center by the bus bound for "Tsukuba Daigaku Chuo" or "Tsukuba Daigaku Junkan (clockwise*)".

JR Joban Line

It takes about 1 hour to Hitachino-Ushiku Station, Arakawaoki Station or Tsuchiura Station from Ueno Station. Then it takes about 30 to 35 minutes to "Dai-San Area Mae" by the bus bound for "Tsukuba Daigaku Chuo" from either the Hitachino-Ushiku Station East Exit, Arakawaoki Station West Exit, or Tsuchiura Station West Exit. If a non-stop bus is not available, take the bus bound for "Tsukuba Center", get off at Tsukuba Center, take the bus bound for "Tsukuba Daigaku Chuo" or "Tsukuba Daigaku Junkan (clockwise*)", then get off at "Dai San Area Mae".

Highway Express Bus

From the Tokyo Station Yaesu South Exit, take the highway express bus bound for "Tsukuba Daigaku". It takes about 60 minutes. After getting off at "Daigaku Kaikan Mae", it takes about 10 minutes on foot. Or, it takes about 65 minutes by highway express bus bound for "Tsukuba Center". It takes about 10 minutes to "Dai-San Area Mae" from "Tsukuba Center" by bus bound for "Tsukuba Daigaku Chuo" or "Tsukuba Daigaku Junkan (clockwise*)".

* "Tsukuba Daigaku Junkan (counterclockwise)" is also available, however, it takes about 20 minites to "Dai-San Area Mae" from "Tsukuba Center".

Contact



Tsukuba

Daigaku

Dai-San Area Mae

